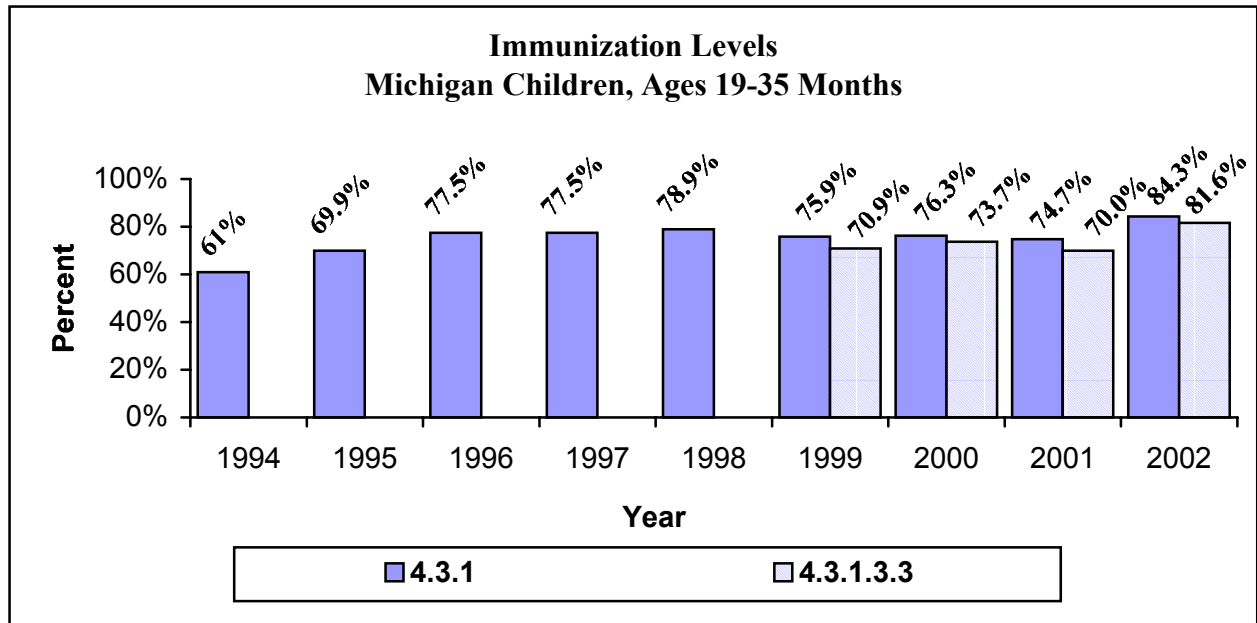


## Focused Indicators

### Preventive Health Care

#### *Childhood Immunizations*



Source: National Immunization Survey, CDC

### ***How are we doing?***

Immunization is the process by which a person is rendered immune or resistant to a specific disease. Childhood immunizations provide protection against:

Varicella (chickenpox);  
Diphtheria;  
*Haemophilus influenzae* type B;  
Hepatitis B;  
Measles;  
Mumps;

Pneumococcal disease;  
Polio;  
Rubella;  
Tetanus; and  
Pertussis (whooping cough).

These diseases are serious and may even be life threatening in very young children. Therefore, most of these vaccines should be administered in the first two years of life.

Prior to 1999, immunization levels in Michigan were based on the percentage of children two years of age who had received four doses of a vaccine containing diphtheria, tetanus and pertussis components (DTP or DTaP), three doses of polio vaccine, and one dose of a vaccine containing measles, mumps and rubella components (MMR) (4.3.1). In 1999, three doses of *Haemophilus influenzae* type B vaccine (Hib) and three doses of hepatitis B vaccine (Hep B) were added to the list of vaccines used to assess the extent to which Michigan's children are

appropriately immunized (4.3.1.3.3). The 2002 National Immunization Survey indicates that 81 percent of Michigan's two-year olds were fully immunized using the new standard (4.3.1.3.3) and 84.3 percent immunized under the prior 4-3-1 standard.

### ***How does Michigan compare with the U.S.?***

Using the National Immunization Survey in comparing the 4.3.1.3.3 standard for Michigan and the United States, Michigan's 2002 immunization rate of 81.6 percent was higher than the U.S. rate of 74.8 percent. Michigan's childhood immunization rates have increased nearly 12% from 2001 to 2002.

### ***What other information is important to know?***

As a direct consequence of successful immunization, vaccine-preventable diseases have become less common. Major barriers to infant and childhood immunization have been identified including: (1) low public awareness and lack of public demand for immunization, (2) inadequate access to immunization services, and (3) missed opportunities to administer vaccines.

Of particular concern are missed opportunities, when a child could have received an immunization but did not, often because the child's immunization status was not reviewed. On average, children visit a health care provider 10 times by their second birthday. It takes only five visits to administer the recommended vaccines.

### ***What is the Department of Community Health doing to affect this indicator?***

The department is actively working to increase childhood immunization. The federal Vaccines for Children (VFC) and the MI-VFC programs make vaccines available to children from low-income families. This eliminates the major financial barrier to children being vaccinated. In 1999, over 2 million doses of vaccine were distributed. All recommended vaccines are available for eligible children. Incentives are provided for Medicaid managed care plans that have children appropriately immunized.

The Michigan Childhood Immunization Registry (MCIR) is a statewide registry of immunizations administered to children (infants to 20 years of age) that can be accessed by approved users anywhere in the state to reduce missed opportunities. In addition to maintaining an immunization record for each child, MCIR generates recall cards for children who have fallen behind on their immunizations. Providers and local health departments can generate profiles of the immunization levels in their clinic or community to determine if additional interventions should be developed. MCIR contains over 20 million shot records on more than 2 million children.

It is important for parents to receive accurate information about vaccines so they can make informed decisions about their children's health. Federal law mandates that Vaccine Information Statements must be given to the parent(s) to read prior to any immunization of their children. In

addition, the department produces informational pamphlets on immunization and specific vaccines. Information on new vaccines, vaccine schedules, appropriate storage, and handling of vaccines is made available to providers through newsletters, seminars, conferences, and video-conferences. Immunization field representatives work with local health departments to encourage immunization as part of maternal and child health services.

The goal of the Migrant Outreach and Immunization Services program is to assure that all migrant children (birth – 18 years) seen by five funded agencies, are age appropriately immunized, and that all immunizations (historical and newly administered) are entered into the Michigan Childhood Immunization Registry (MCIR). The funded agencies are Health Delivery Inc., InterCare Community Health Network, Northwest Michigan Health Services, Family Medical Center and Telamon Corporation. The delivery of immunization services, (assessment and/or vaccine administration), are provided in migrant clinics, daycare settings and satellite locations (migrant camp, etc.). In fiscal year (FY) 2001-2002, approximately 3,831 migrant children were assessed and/or immunized in the funded agencies. In FY 2002-2003, agencies project that 9,625 migrant children will be assessed and/or immunized.

The department provides testing services for the diagnosis of many vaccine-preventable diseases. This is essential in assessing vaccine failure and disease control in unvaccinated populations.

Last Updated: August 2003